

Abstract

An inner magnetic shield material for use in manufacturing an inner magnetic shield to be installed inside a color picture tube comprises a steel strip having a coating film of an organic resin which consists essentially of C and H, or of C, H,
5 and O, or of C, H, O, and N on at least one surface of the steel strip, wherein the at least one surface of the steel strip has a surface roughness (Ra) of 0.2 - 3 μm and the organic resin coating film has a thickness (T) of 0.1 - 6 μm . Preferably, the ratio T/Ra is in the range of 0.2 - 4.0. The organic resin coating film contains particles of a wax dispersed therein, wherein the ratio (ϕ/T) of average particle diameter (ϕ) of
10 the wax to film thickness (T) is in the range of 0.5 - 5, and the content of the wax in the film is such that 2 - 20% of the surface of the coating film is occupied by the wax when the surface is observed under an electron microscope. The organic resin coating film may contain one of (a) at least one coupling agent in a total amount of 2 - 50 wt% and (b) at least one metal oxide selected from SiO_2 , Fe_3O_4 , Fe_2O_3 , Ni-O ,
15 Zr-O , Cr_2O_3 , and Al_2O_3 in a total amount of 2 - 80 wt%, or both.